IN THE CLAIMS

Per the revised amendment practice, a complete listing of all claims in the application follows.

- 1. (Previously presented) A substrate assembly, comprising:
 - a support surface; and
 - a plurality of high-K dielectric layers over said support surface, wherein a common metal is present in at least two adjacent layers of said plurality, and wherein at least two layers of said plurality exhibit different degrees of oxidation.
- 2. (Original) The substrate assembly in claim 1, wherein said plurality of high-K dielectric layers comprises a first high-K dielectric layer contacting said support surface.
- 3. (Original) The substrate assembly in claim 1, further comprising a barrier layer between said support surface and said plurality of high-K dielectric layers.
- 4. (Original) The substrate assembly in claim 1, wherein said support surface is a capacitor electrode.
- 5. (Previously presented) The substrate assembly in claim 1, wherein said plurality of high-K dielectric layers defines a thickness of at most 200 angstroms.
- 6. (Original) The substrate assembly in claim 5, wherein said plurality of high-K dielectric layers comprises a first high-K dielectric layer contacting said support surface and defining a thickness of at least a monolayer.
- 7. (Previously presented) The substrate assembly in claim 6, wherein said first high-K dielectric layer defines a thickness of at least 10 angstroms.
- 8. (Previously presented) A capacitor dielectric, comprising:

 a first high-K capacitor dielectric comprising a metallic element; and

- a second high-K capacitor dielectric comprising said metallic element, having a lower oxygen density than said first high-K capacitor dielectric, and contacting said first high-K capacitor dielectric.
- 9. (Original) The capacitor dielectric in claim 8, wherein said first high-K capacitor dielectric defines a first thickness; and wherein said second high-K capacitor dielectric defines a second thickness that is different from said first thickness.
- 10. (Original) The capacitor dielectric in claim 8, wherein said first high-K capacitor dielectric and said second high-K capacitor dielectric are oxides.
- 11. (Original) The capacitor dielectric in claim 10, wherein said first high-K capacitor dielectric is a first oxide; and wherein said second high-K capacitor dielectric is a second oxide different from said first oxide.
- 12. (Previously presented) A capacitor dielectric, comprising:
 - a first high-K capacitor dielectric comprising a metallic element; and a second high-K capacitor dielectric comprising said metallic element and contacting said first high-K capacitor dielectric,
 - wherein said first high-K capacitor dielectric and said second high-K capacitor dielectric are oxides, wherein said first high-K capacitor dielectric contains a first amount of oxygen per unit volume, and wherein said second high-K capacitor dielectric contains a second amount of oxygen per unit volume different from said first amount.
- 13. (Previously presented) A capacitor structure, comprising:
 - a first electrode layer;
 - a dielectric layer disposed over said first electrode layer, wherein said dielectric layer comprises a plurality of consecutively-positioned sub-layers, wherein each of said sub-layers comprises a high-dielectric-constant material, wherein said dielectric layer comprises an element common to all sub-layers of said plurality,

and wherein one of said sub-layers is more oxidized than another of said sublayers; and

a second electrode layer disposed over said dielectric layer.

Claims 14-51 (cancelled).

52. (Original) A capacitor dielectric, comprising a plurality of capacitor dielectric layers defining a total thickness ranging from 50 to 70 angstroms, wherein each layer of said plurality is a high-K dielectric defining an individual thickness ranging from 10 to 40 angstroms in thickness, and wherein each layer of said plurality comprises a metal oxide included within an adjacent layer of said plurality.

53. (Original) The capacitor dielectric of claim 52, wherein at least a lowest layer of said plurality defines an individual thickness of about 20 angstroms.

Claims 54-59 (Cancelled).